

NAME: _____



Purpose

To solve percent discount and markup problems

Math Words

regular price

The regular price is the price you pay before a percent is taken off.

discount

When you pay less money than the regular price, you are getting a discount.

markup

If a store paid \$10 for some shoes and it charges the customer \$20, the new price is a markup of 100%.

Starter Problem

Solve. Think about the meaning.

A store employee gets a 28% discount on purchases.

She bought a watch that regularly costs \$38.50.

How much did she pay, without tax? _____

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Student Thinking

Dakota

If the discount is 28%, she only has to pay 72%. So I multiplied \$38.50 times 0.72 and got \$27.72. That's the discounted price.

You get the same answer if you multiply \$38.50 times 0.28 to get the discount, and then subtract from the regular price.



$$\begin{array}{r}
 \begin{array}{r}
 \overset{5}{\$} \overset{3}{38.50} \\
 \times 0.72 \\
 \hline
 7700 \\
 269500 \\
 \hline
 \underline{\$27.7200}
 \end{array}
 \quad \text{OR} \quad
 \begin{array}{r}
 \overset{1}{\$} \overset{6}{38.50} \\
 \times 0.28 \\
 \hline
 30800 \\
 77000 \\
 \hline
 \underline{\$10.7800}
 \end{array}
 \quad
 \begin{array}{r}
 \overset{7}{\$} \overset{14}{38.50} \overset{10}{0} \\
 - 10.78 \\
 \hline
 \underline{\$27.72}
 \end{array}
 \end{array}$$



Ira

I subtracted \$28 from \$38.50. She pays \$10.50 after you take the discount off.

$$\begin{array}{r}
 \$38.50 \\
 - 28.00 \\
 \hline
 \$10.50
 \end{array}$$

Pitfall**Things to Remember**

- * _____
- * _____



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Our Turn

Solve. Round answers to the nearest cent if necessary.

1. How much money is saved when a \$199.90 speaker set is on sale for 30% off?
2. A store buys CD cases for \$8. Their percent of markup is 75%. What is the selling price of a CD case?
3. One Saturday, a department store offered a discount of 20% on all purchases. What is the discounted price of items that regularly cost \$59.89?

NAME:

My Turn

Solve. Round answers to the nearest cent if necessary.

1. A theater gives students a 40% discount on tickets. What is the student price of a ticket that regularly costs \$28.50?
2. A grocery store says its percent markup on vegetables is 10%. The store buys a bin of corn on the cob for \$125. What is the selling price of the bin of corn?
3. Which gives a better sale price, a \$150 item with a \$30 discount or a \$150 item with a 30% discount?

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Multiple Choice Mini Lesson

Fill in the circle next to the answer you choose.

1. A \$34.75 item with a 16% discount should cost _____.

☐ \$5.56☐ \$18.75☐ \$29.19☐ \$34.59

2. An \$89.20 item with a 60% markup has a price of _____.

☐ \$149.20☐ \$142.72☐ \$53.52☐ \$29.20

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Writing Task Mini Lesson

Explain how you know that it is better to get a \$20 discount off an \$80 item instead of a 20% discount.



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